



The California Hydrogen Highway Network will provide access to hydrogen along the State's major highways for every Californian by the end of the decade. A significant and increasing percentage of the hydrogen will be produced from clean, renewable sources.

Bringing hydrogen to California means jobs for Californians, clean air for its citizens, and energy security for the State. In the words of Governor Arnold Schwarzenegger: **"If you want to see it, then come to California!"**

When California uses hydrogen as an energy carrier it decreases our petroleum dependence, reduces environmental degradation and enhances our economic and energy security. Hydrogen can be produced from electrolysis using renewable sources of energy or from any hydrocarbon fuel. Investing in California's hydrogen future will bring investment, good jobs and renewed economic prosperity

Hydrogen is non-toxic. Hydrogen is the lightest element on the planet and If released into the air dissipates quickly to a concentration too low to ignite. Yes, pure hydrogen is flammable, and as with all fuels, must be handled with caution. However, compared to gasoline, hydorgen burns in a flame pattern that is up and away from its source cleanly and quickly. By contrast, vapors from fuels such as gasoline, diesel and natural gas do not readily disperse and remain a flammable source for a longer time. Precautions are being readied such as sensors that will be employed to detect hydrogen leaks.

It is still too early to say definitely. But the substantial investments being made by automakers signal that there is a strong, recognized business case that when mass produced the technologies will cost no more than conventional vehicles. One cost advantage of fuel cell vehicles is that they are expected to be much more fuel efficient than standard gasoline cars.

Firoz Rasul, Ballard Power Systems Inc., 2003

Byron McCormick, GM, 2003

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